Datacard®

Datacard® SP35/SP35 Plus Card Printer

Illustrated Parts Manual

April 2007

Part No. 539695-001, Rev A

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Revision Log

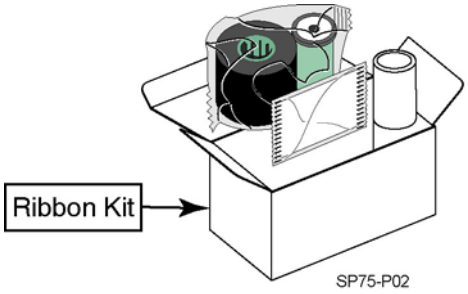
SP35/SP35 Plus Card Printer Illustrated Parts Manual

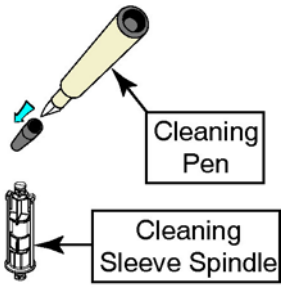
Revision	Date	Description of Changes
A	April 2007	First release of this document.

Supplies

Description	Part Number	
	SP35 Plus	SP35
YMCKT Supplies Kit (250 yield)	552854-204	552854-204
YMCKT Supplies Kit (500 yield)	552854-504	552854-504
YMCKT Supplies Kit (650 yield)	552854-530	552854-530
KT Supplies Kit	552854-509	552854-509
Black Monochrome Kit	552954-501	552954-501
Dark Blue Monochrome Kit	552954-502	552954-502
White Monochrome Kit	552954-503	552954-503
Red Monochrome Kit	552954-504	552954-504
Silver Monochrome Kit	552954-507	552954-507
Scratch Off Monochrome Kit	552954-513	552954-513
Cleaning Sleeve 5-Pack	569946-001	569946-001
Cleaning Kit 10-Pack	570113-001	---
Printhead Cleaning Pen	557492-001	557492-001
Cleaning Card, 10-Pack	552141-002	552141-002
Stickicards (100 per box)	597640-001	597640-001
Cleaning Sleeve Spindle	551148-001	551148-001
Soft-Side Case	553950-002	553950-002

All of the foil and ribbon supplies listed above come in a kit that includes the ribbon, cleaning sleeve, and cleaning card as shown at the left below.

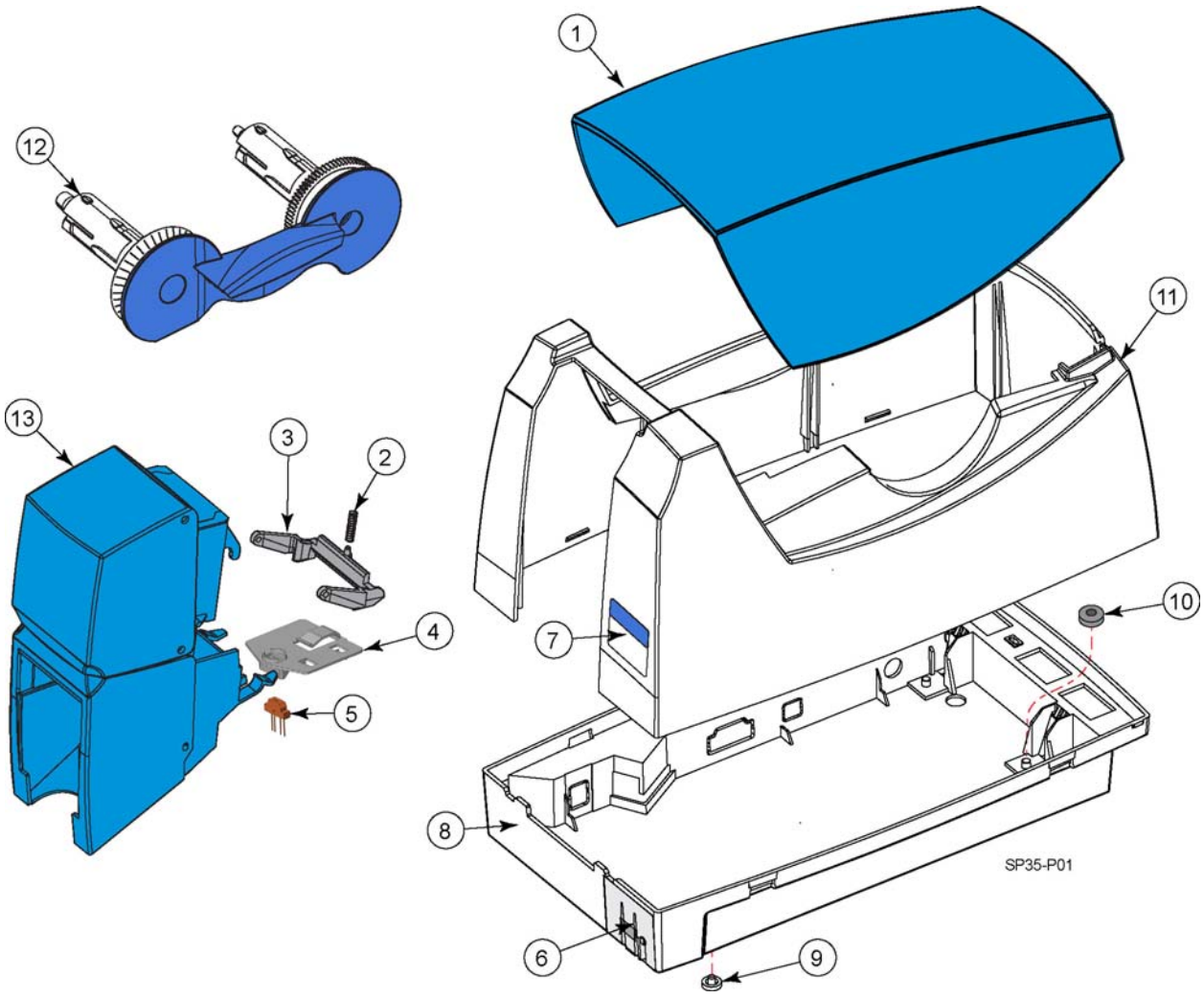




Enclosure

The serial numbers (SN) for the SP35 Plus are 90000 and above; RoHS-compatible SP35 printers are between 70000 and 89999; pre-RoHS SP35 printers are SN 69999 or lower.

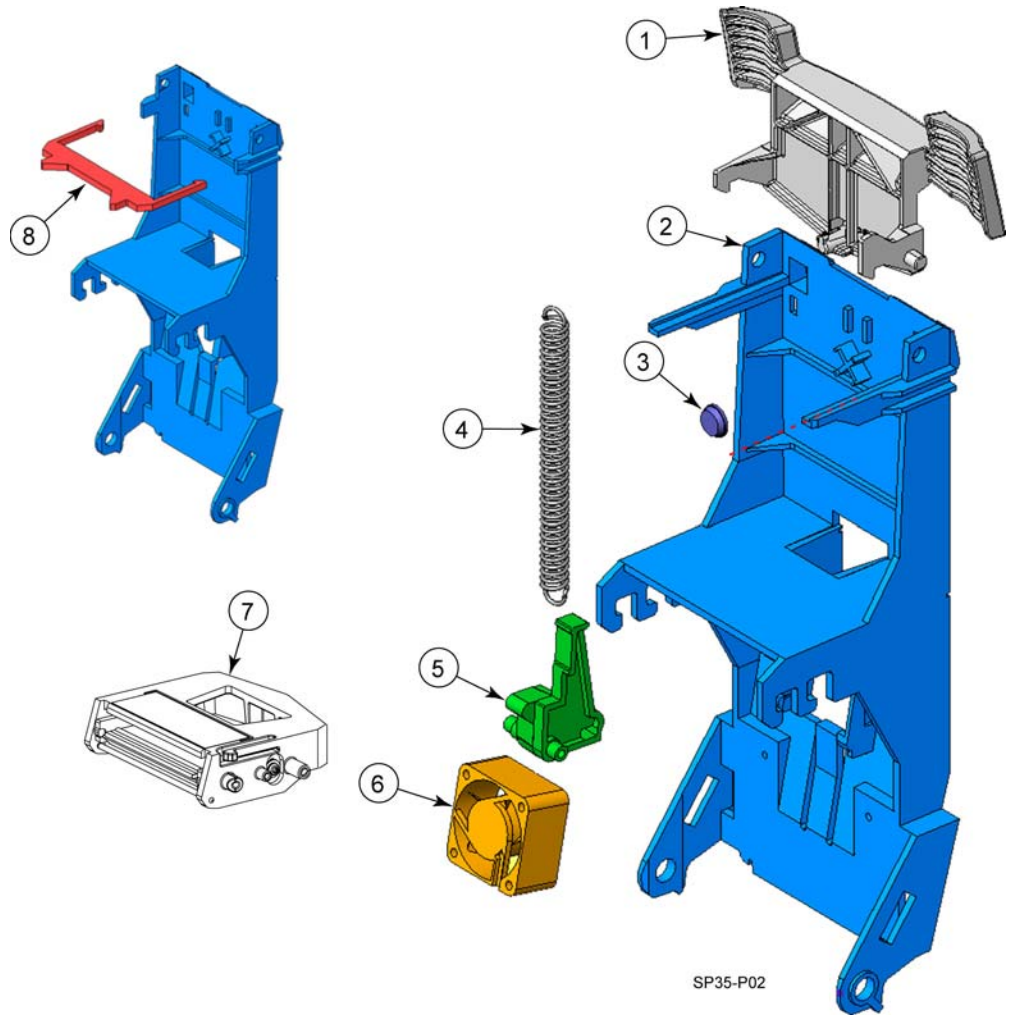
Item	Part Number		Description	Qty
	SP35 Plus	SP35		
1	551447-001	551447-001	Swingarm Cover (Cover Enclosure)	1
2	553949-001	553949-001	Card Gate Spring	1
3	569837-001	569837-001	Card Gate	1
4	569966-001	---	Bracket, Hopper Empty Sensor	1
5	566752-001	---	Sensor, Hopper Empty	1
6	551441-006	551441-001	Printer Label, Interface	1
7	---	552146-001	Printer Logo Label	
7a	570357-001	---	Nameplate Base	1
7b	570358-002	---	Nameplate (Dome)	1
8	551478-004	551478-001	Base, with 2-feet and 2-Control Board Isolators	1
9	551454-001	551454-001	Printer Feet	3
10	551453-001	551453-001	Control Board Isolator (alias: compression foot)	2
11	551446-004	551446-001	Enclosure Body	1
12	568899-999	568899-999	Print Ribbon Cartridge	1
13	569837-001	569837-001	Card Tray	1


1
12
11
13
3
2
4
7
10
5
8
SP35-P01
6
9

Swingarm Assembly

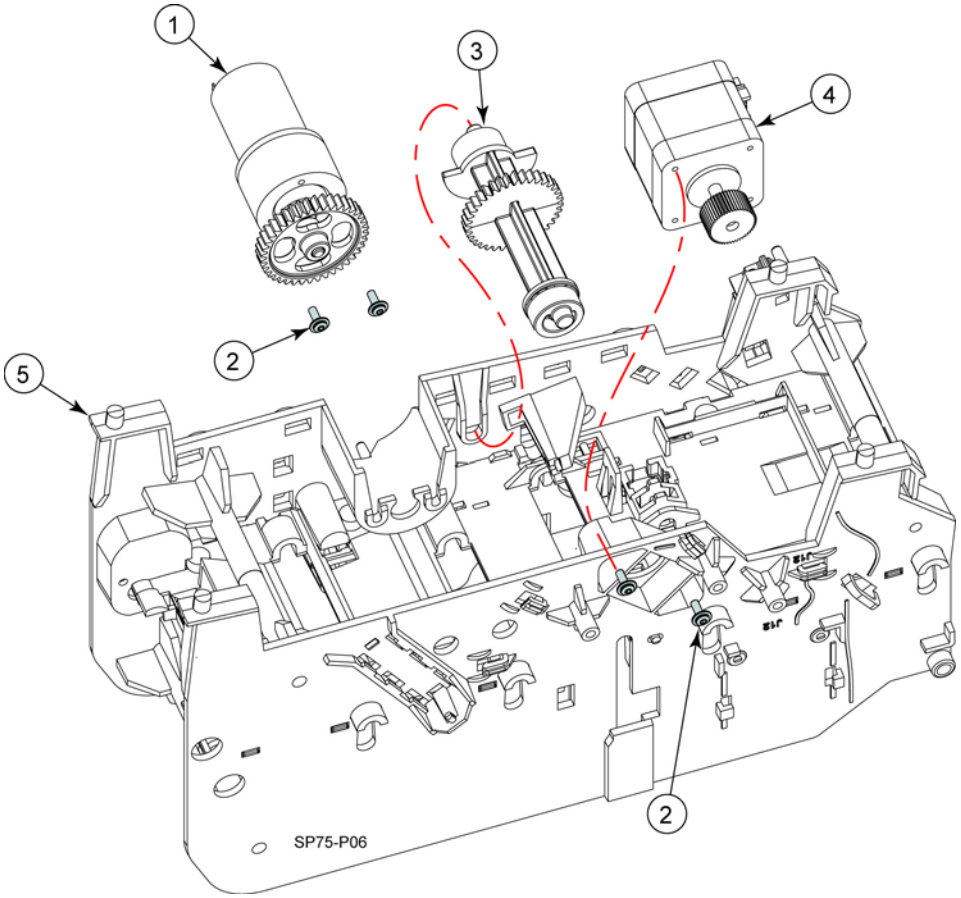
Item	Part Number		Description	Qty
	SP35 Plus	SP35		
-	---	559645-999	Swingarm Assembly (includes items 1 through 6)	1
-	570311-001	559645-001	Swingarm Assembly (without fan)	
1	570305-001	551116-001	Swingarm Latch	1
2	558430-001	558430-001	Swingarm	1
3	551454-001	551454-001	Bumper (alias: enclosure foot)	1
4	553806-001	553806-001	Printhead Bias Spring	1
5	551114-001	551114-001	Printhead Release Lever (alias: spring lever)	1
6	569714-001	569714-001	Printhead Fan	1
7	569110-999 569110-998	569110-999 569110-998	Printhead, Color Printhead, Monochrome	1
8	NA	563877-001	Swingarm Clip*	-

* The swingarm clip is an optional item for older model SP-series swingarms to hold the cleaning roller in place during shipping or transportation.



Print Transport, Underside

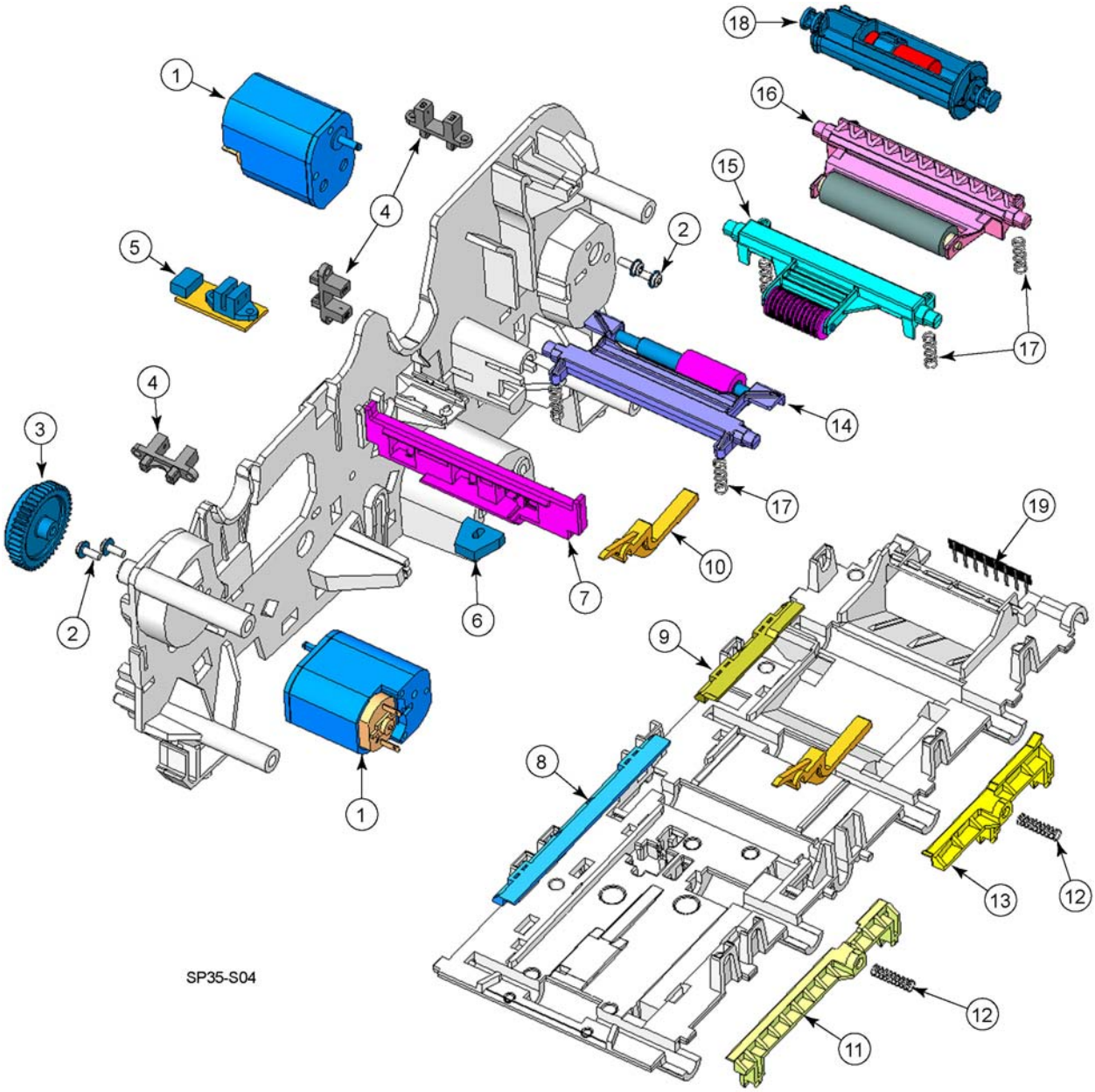
Item	Part Number		Description	Qty
	SP35 Plus	SP35		
1	566928-001	566928-001	Cam Motor	1
2	809428-208	809428-208	Motor Screws	4
3	551413-001	551413-001	Printhead Cam	1
4	569650-001	569650-001	Transport Motor	1
5	570242-999	570242-999	Transport Chassis with Idler Pulleys and Tensioner	1



Print Transport, Top Side

The same part numbers are used for the SP35 Plus and SP35 models.

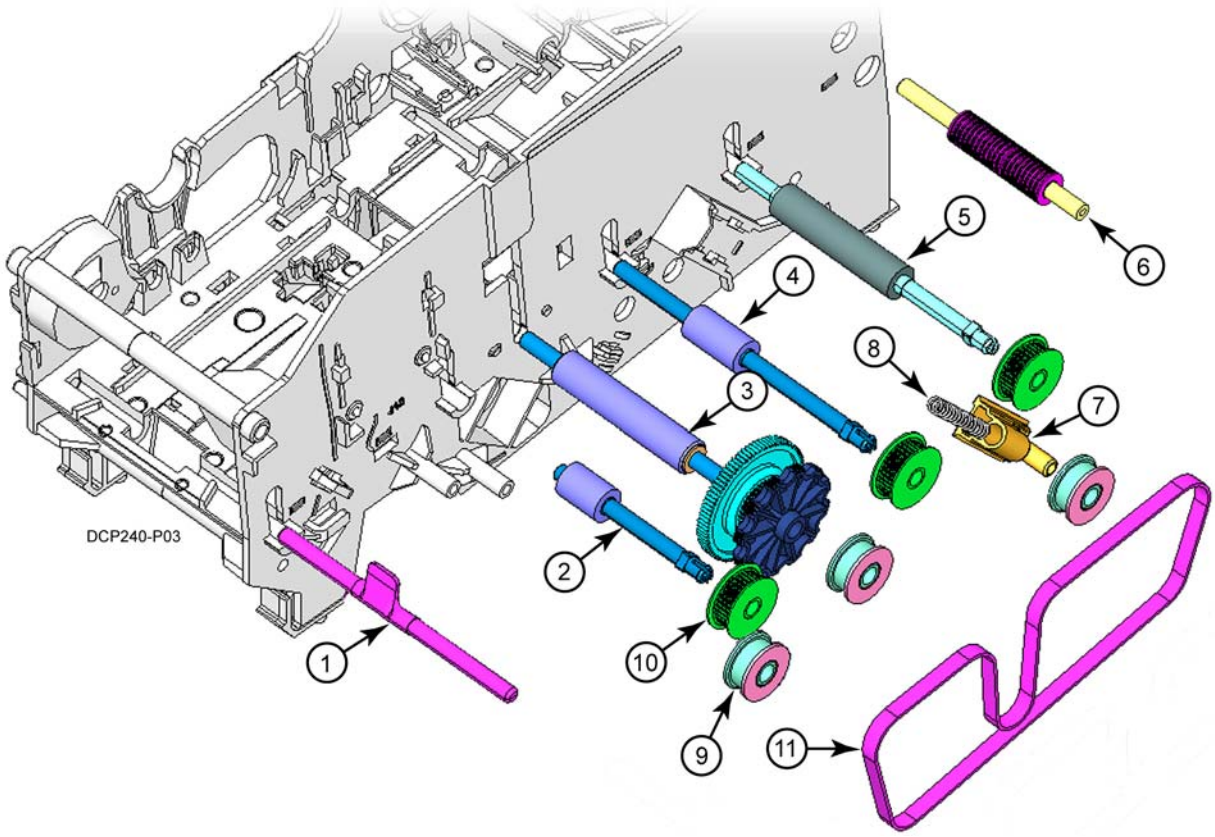
Item	Part Number	Description	Qty
1	566929-001	Ribbon and Pick Motors	2
2	809428-208	Motor Screws, Torx, Sems, M3x8	4
3	551402-001	Ribbon Gear	1
4	566751-001	Cam, Input, and Swingarm Sensors, Wide Slot	3
5	566405-001	Ribbon Encoder Sensor (circuit board)	1
6	566753-001	Ribbon Index Sensor, Reflective	1
7	552071-001	Ribbon Guide	1
8	552245-001	Rear Card Guide Cover	1
9	552250-001	Front Card Guide Cover	1
10	551520-001	Printhead Lifter	2
11	570648-001	Rear Card Guide	1
12	551471-001	Card Guide Bias Spring	2
13	551437-001	Front Card Guide	1
14	564635-001	Rear Rocker Assembly	1
15	551422-001	Front Rocker Assembly	1
16	551425-001	Cleaning Rocker Assembly	1
17	551459-001	Rocker Arm Spring	6
18	551148-001	Cleaning Sleeve Spindle	1
19	552143-001	Static Brush, Self-Adhesive	1


SP35-S04

Print Transport, Drivetrain

The same part numbers are used for the SP35 Plus and SP35 models.

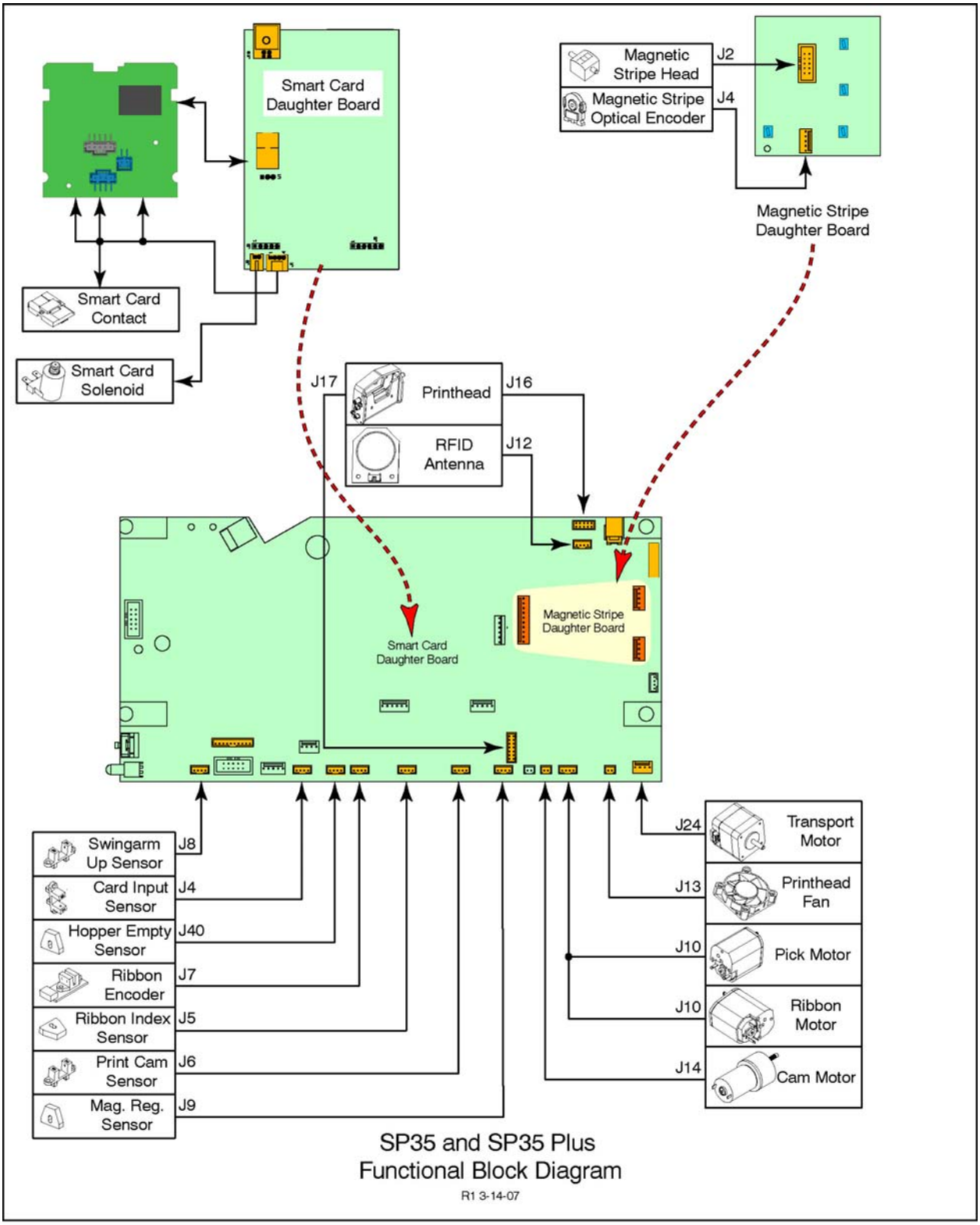
Item	Part Number	Description	Qty
1	554915-001	Card (Mag) Stop (on simplex printers only)	1
2	564634-001	Rear Transport Drive Roller	1
3	566935-001	Platen Roller	1
4	564632-001	Forward Transport Drive Roller	1
5	551421-001	Cleaning Drive Roller	1
6	570040-001	Pick Roller	1
7	559270-001	Belt Tensioner	1
8	568093-001	Belt Tension Spring	1
9	559269-001	Idler Pulley	4
10	554234-001	Drive Pulley	3 or 4
11	552142-001	Drive Belt	1



Electrical Components

Part Number			Description	Qty
SP35 Plus	SP35 SN 70000 and greater	SP35 SN under 70000		
564595-011	564595-001	553975-001	Main Control Board, Color	1
564595-969	564595-998	553975-998	Main Control Board, Mono	1
566751-001	566751-001	566751-001	Swingarm Up Sensor, Wide slot	1
566751-001	566751-001	566751-001	Card Input Sensor, Wide slot	1
566405-001	566405-001	566405-001	Ribbon Encoder Sensor	1
566755-001	566755-001	566755-001	Ribbon Encoder Cable	1
566753-001	566753-001	566753-001	Ribbon Index Sensor, Reflective	1
566751-001	566751-001	566751-001	Print Cam Sensor, Wide slot	1
566928-001	566928-001	566928-001	Cam Motor	1
566929-001	566929-001	566929-001	Ribbon and Pick Motors	2
566759-001	566759-001	566759-001	Ribbon and Pick Motor Cable (Single cable for both DC motors)	1
569714-001	569714-001	569714-001	Printhead Fan	1
569650-001	569650-001	569650-001	Transport Motor	1
566406-001	566406-001	566406-001	RFID Antenna	1
566755-001	566755-001	566755-001	RFID Cable	1
569110-999	569110-999	569110-999	Color Printhead	1
569110-998	569110-998	569110-998	Monochrome Printhead	1
568614-001	568614-001	568614-001	Printhead Cable	1
---	---	809561-004	Ferrite Bead Inductor	1
566752-001	---	---	Hopper Empty Sensor	1

Print Engine Functional Block Diagram



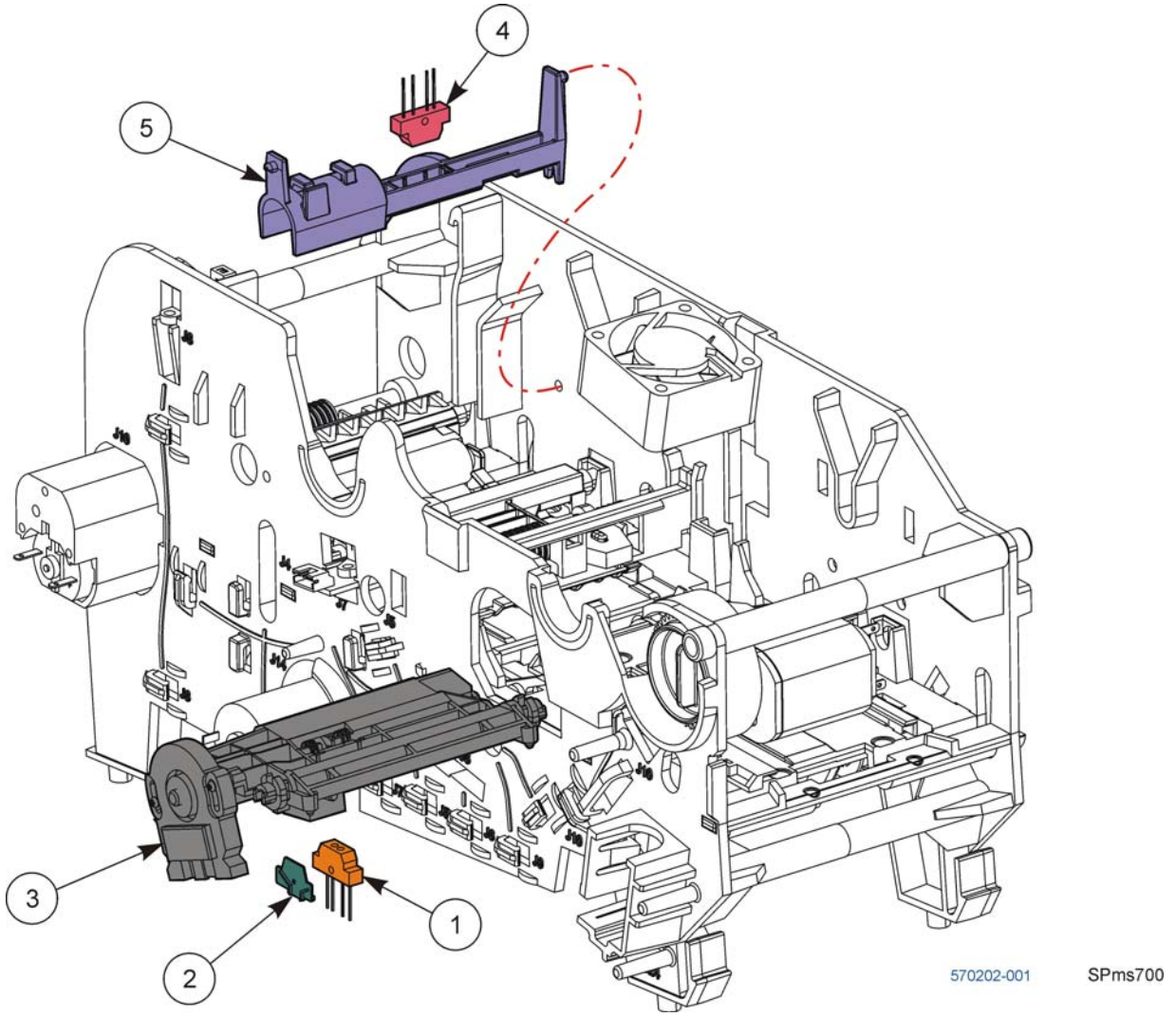
Power Supply and External Cables

Part Number	Description	Qty
809519-002	USB Cable, 6-foot with Ferrite Bead	1
805815-004	Optional Smart Card Serial Port Cable-Contact Station DSUB, 9M-9F, 6-foot (SN Under 69999)	1
809595-001	Power Supply (AC cord not included)	1
804517-003	Power Cord, US/NA, 10A, 18GA 3CND, 125V AC	1
809587-001	Power Cord, US/NA, 10A, 18GA 3CND, 220V AC	
809440-001	Power Cord, Intl, 10A, Europe	
809440-010	Power Cord, Intl, 10A, Australia	
809440-003	Power Cord, Intl, 10A, UK	
809440-004	Power Cord, Intl, 10A, Denmark	
809440-005	Power Cord, Intl, 10A, India	
809440-006	Power Cord, Intl, 10A, Israel	
809440-007	Power Cord, Intl, 10A, Italy	
809440-008	Power Cord, Intl, 10A, Switzerland	
809440-009	Power Cord, Intl, 10A, China	
809445-001	Power Cord, Intl, 7A, 125V, Japan	

Clear Card Option

This option is not available on the SP35.

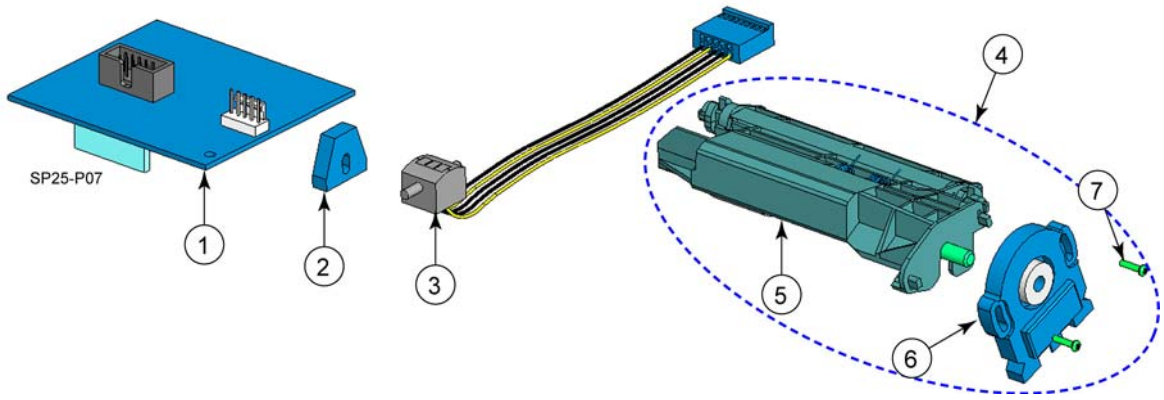
Item	Part Number	Description	Qty
1	566752-001	Magnetic Stripe Sensor	1
2	570588-001	Magnetic Stripe Sensor Mount	1
3	570477-001	Magnetic Stripe Rocker For Clear Card (Includes cable and encoder)	1
4	566752-001	Input Sensor	1
5	569697-001	Bracket, Input Sensor	1



Magnetic Stripe Options

Note: After replacing any of the magnetic stripe components listed below, you **must** complete the *Calibrate MS Head* procedure as described in the Adjustments chapter of the service manual.

Item	Part Number	Description	Qty
1	566320-001 566320-002	3-Track Interface Board 1-Track Interface Board	1
2	566753-001	Registration Sensor	1
3	568286-001 568287-001	3-Track Magnetic Stripe Head 1-Track Magnetic Stripe Head	1
4	562738-998	Rocker Assembly (Includes all items listed below)	1
5	566940-001	Rocker	1
-	566754-001	Encoder Cable	1
6	809413-001	Encoder[1]	1
7	809429-108	Screw, M1.8-0.80 x 8	2

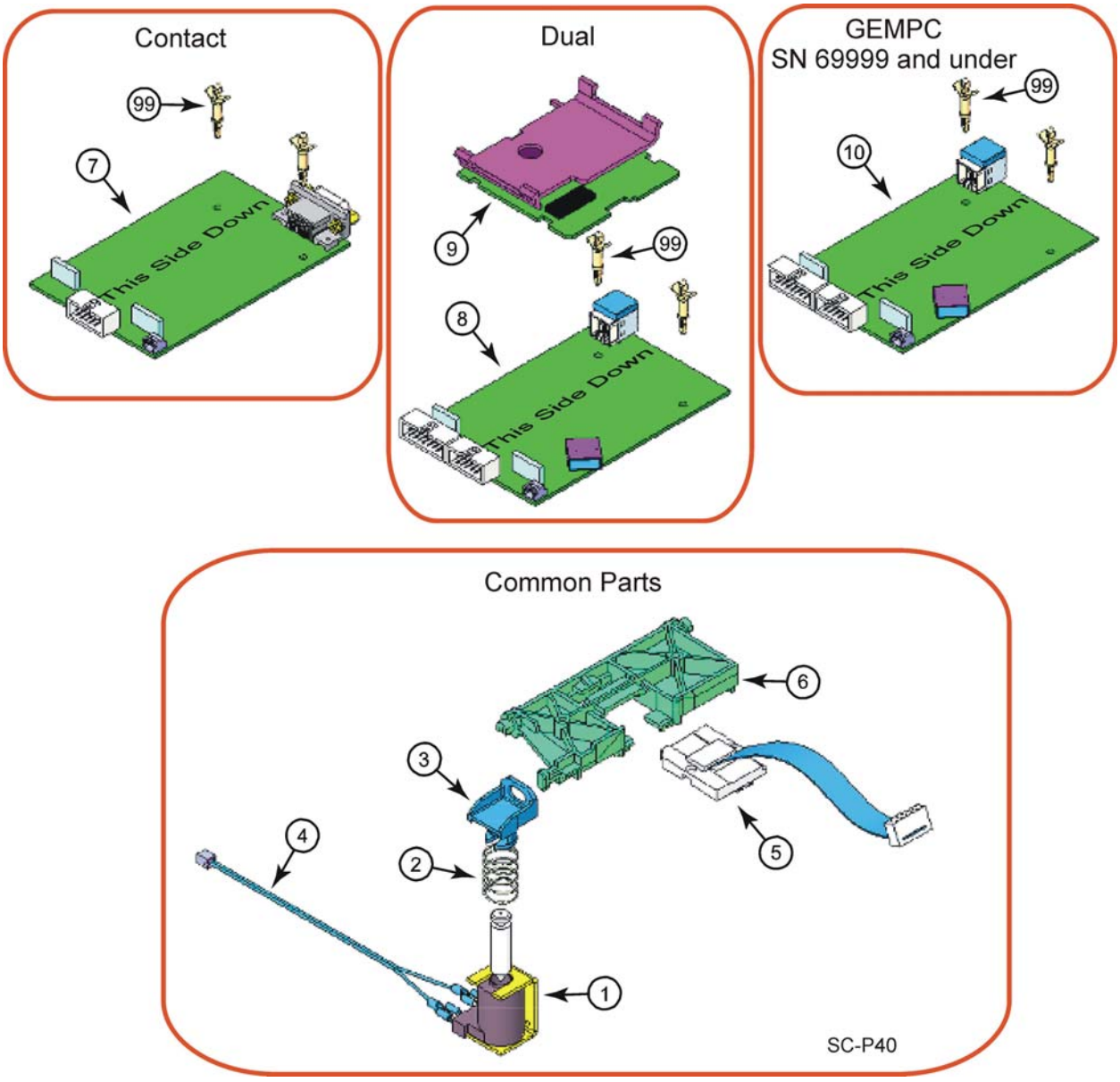


[1] Datacard strongly recommends replacing the entire Rocker Assembly (PN 562738-998) if the encoder needs to be replaced. Rocker assemblies are tested at the factory for ISO 7811/JIS x6302 compliance for jitter, but individual encoders are not tested.

Smart Card Options

Item	Part Number		Class			Description	Qty
	(SN 70000 or greater)	(SN under 69999)	C	D	G		
---	568293-001	553170-001	x			SC Upgrade Kit, Contact	1
---	568296-001	558411-001		x		SC Upgrade Kit, Dual	1
---	568581-001	558077-001			x	SC Upgrade Kit, GemPC	1
1	566930-001	566930-001	x	x	x	Solenoid Assembly	1
2	568017-001	568017-001	x	x	x	Smart Card Lift Spring	1
3	551494-001	551494-001	x	x	x	Solenoid Plunger Link	1
4	566758-001	566758-001	x	x	x	Solenoid Cable	1
---	569441-999	569441-999	x			Contact Block Upgrade Assembly (includes cable below and items 5 and 6)	1
---	568561-001	---	X			Contact Station Cable	1
5	566348-001	---	x	x	x	Contact Block	1
6	568547-001	---	x	x	x	Contact Block Carrier	1
7	565341-003	551327-004	x			Contact Interface Board	1
8	565341-001	554782-003		x		Dual Interface Board	1
9	564350-999	564350-999		x		Dual Reader (with bracket)	1
---	566371-001	559633-001		x		Dual Interface Cable (not shown)	1
10	566586-999	552650-003			x	GemPC Interface Board	1
99	807519-106	807519-106	x	x		Circuit Board Standoff	2
---	559591-001	559591-001		x		Coupler Bracket	1
---	805798-001	805798-001		x		Double-sided Foam Tape	1

Key:
C = Contact
D = Dual (Contact and Contactless)
G = GemPC USB


Contact
99
7
This Side Down
Dual
9
99
8
This Side Down
GEMPC
SN 69999 and under
99
10
This Side Down
Common Parts
6
3
4
2
5
1
SC-P40

Packaging

Part Number	Description	Qty
570077-005	Shipping Carton, SP35 Plus (with foam packing)	1
570077-001	Shipping Carton, SP35 (with foam packing)	1
803990-013	Plastic Bag, 10 x 8 x 30 inches	1
570332-001	Shipping Kit, SP35 Plus	1
551560-001	Shipping Kit, SP35	1